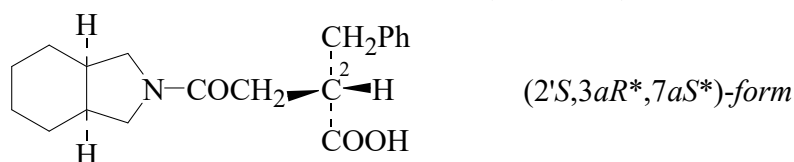




>>Entry Name: Mitiglinide, INN

Synonym(s): Octahydro- γ -oxo- α -(phenylmethyl)-2*H*-isoindole-2-butanoic acid, 9Cl. 2-Benzyl-3-(hexahydro-2-isoindolinylicarbonyl)propionic acid. KAD 1229



CAS Registry Number: 145324-16-9

Related CAS Registry Numbers(s): 145324-18-1 145375-44-6

Molecular Formula: C₁₉H₂₅NO₃

Molecular Weight: 315.411

Accurate Mass: 315.183444

Percentage Composition: C 72.35%; H 7.99%; N 4.44%; O 15.22%

Biological Use/Importance: Stimulates insulin secretion. Oral hypoglycaemic agent

Other Data: Analogue of Meglitinide [BLB82-M](#)

>>Variant: (2'S,3aR*,7aS*)-form

CAS Registry Number: 145375-43-5

Molecular Formula: C₁₉H₂₅NO₃

Molecular Weight: 315.411

Accurate Mass: 315.183444

Percentage Composition: C 72.35%; H 7.99%; N 4.44%; O 15.22%

Physical Description: Oil

Optical Rotation: $[\alpha]_D^{17} -3.5$ (c, 1.0 in MeOH)

Other Data: Pharmacol. active isomer

>>Derivative: Ca salt

CAS Registry Number: 145525-41-3

Physical Description: Cryst. +2H₂O (diisopropyl ether)

Melting Point: Mp 179-185°

References:

- Eur. Pat.*, 1992, *Kissei*, 507 534; *CA*, **118**, 59584b, (*synth, isomers, pharmacol*)
Mogami, H. *et al.*, *Eur. J. Pharmacol.*, 1994, **269**, 293-298, (*pharmacol*)
Malaisse, W.J., *Horm. Metab. Res.*, 1995, **27**, 263-266, (*pharmacol*)
Lins, L. *et al.*, *Biochem. Pharmacol.*, 1996, **52**, 1155-1168, (*pmr, cmr, pharmacol*)
Kinukawa, M. *et al.*, *Br. J. Pharmacol.*, 1996, **117**, 1702-1706, (*pharmacol*)
Ulusoy, S. *et al.*, *Diabetes Res.*, 1996, **31**, 27-31, (*pharmacol*)